

# 2007 IEEE International Conference on Networking, Sensing and Control

15-17 April 2007, University of Brunel

## Special Sessions on HAM

Lecture Room: 061
<b>Session 1: Special session on Human Adaptive Mechatronics 1</b>  <i>Chair:</i> Yoshinori Uchikawa <i>Co-chair:</i> Masayasu Ito
10:00-10:20 Estimating multiple sources in somatosensory area to SEF of finger stimulus using SVD and time-frequency analysis (ID: <b>329</b> ) <i>Bong-Soo Kim and Yoshinori Uchikawa</i> <i>Tokyo Denki University</i>
10:20-10:40 A novel approach for Self-Localization based on Computer Vision and Artificial Marker Deposition (ID: <b>348</b> ) <i>Savan Chhaniyara, K. Althoefer and L. D. Seneviratne, Y. H. Zweiri</i> <i>King's College London</i> <i>University of Mutah</i>
10:40-11:00 Associative Memory for Noisy and Structurally Deformed Two-Dimensional Images Using Neural Networks (ID: <b>152</b> ) <i>Hiroshi Inaba, Tomoki Takahashi and Keylan Alimhan</i> <i>Tokyo Denki University</i>
11:00-11:20 Optimization and Control of a Pendulum-driven Cart System (ID: <b>193</b> ) <i>Yang Liu, Hongnian Yu, Brian Burrows</i> <i>Staffordshire University</i>

Lecture Room: 061
<b>Session 1: Special session on Human Adaptive Mechatronics 2</b>  <i>Chair:</i> Zhao-Hui Jiang <i>Co-Chair:</i> Kaspar Althoefer
13:30-13:50 Towards Robot-Assisted Mass-Casualty Triage (ID <b>146</b> ) <i>Carolina Chang, Robin R Murphy</i> <i>Universidad Simón Bolívar,</i> <i>University of South Florida</i>
<b>13:50-14:10</b> Unstable Object Stabilization and Control Using a DD Robot Manipulator (ID: <b>332</b> )

<i>Zhao-Hui Jiang and Kouya Kamise Hiroshima Institute of Technology</i>
14:10-14:30 Dynamic Analysis and Traversability Prediction of Tracked Vehicles on Soft Terrain (ID: <b>177</b> ) <i>Said Al-milli, Kaspar Althoefer, and Lakmal D. Seneviratne King's College London</i>
14:30-14:50 Ceiling Light Landmarks Based Localization and Motion Control for a Mobile Robot, (ID: <b>83</b> ) <i>Hongbo Wang, Lingfu Kong, and Hongnian Yu, Yanshan University</i>
14:50-15:10 A Mechatronic System Design Case Study: Adaptive Modeling and Control of an Inverted Pendulum (ID <b>231</b> ) <i>Seyed Salahadin Mirsaeid Ghazi and Anahita Zarei Iran University of Science and Technology</i>
15:10-15:30 A calibration test of Stewart platform (ID: <b>350</b> ) <i>Yong Zhang and Feng Gao Shanghai Jiaotong University</i>